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said pressure buffer chamber are <u>respectively</u> arranged in [this order in the

same] sequence along a thickness direction of said piezoelectric block (A),

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one of said fixed walls is disposed adjacent to said ink pressure

chamber [and/or] and another of said fixed walls is disposed adjacent to said

pressure buffer chamber [in reference to said the same direction].

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3. (Amended) An ink-jet recording head comprising at least

one piezoelectric block (B) having [an] (a) first and second ink pressure

[chamber] chambers, each pressure chamber communicating with a [nozzles]

nozzle for ejecting ink [to be] supplied from an ink [introducing portion]

5 supply, (b) first and second partition walls, each partition wall serving as a

driving [portions] portion for one of the wo ink pressure chambers, each

7 partition wall including a piezoelectric [elements] element and at least two

8 electrodes for driving said piezoelectric [elements] element, (c) a pressure

buffer chamber, and (d) first and second fixed walls,

wherein [said piezoelectric block (B) is configured such that a] the first ink pressure chamber, [a] the first partition wall [serving as a driving portion], said pressure buffer chamber, [a] the second partition wall [serving as a driving portion,] and [a] the second ink pressure chamber are arranged in [the same direction] sequence along a thickness direction of said

piezoelectric block (B),

said first fixed wall[s being] disposed adjacent to said first ink pressure chamber and said second fixed wall disposed adjacent to said second

ink pressure chamber [in reference to said the same direction].

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4. (Amended) An ink-jet recording head comprising:

at least one piezoelectric block (A) having (a) an ink pressure chamber (A) communicating with a nozzle (A) for ejecting ink [to be]

supplied from an ink [introducing portion] supply, (b) a partition wall (A)

serving as a driving portion that includes [including] a piezoelectric element

(A) and at least two electrodes (A) for driving said piezoelectric element (A), 6 (c) a pressure buffer chamber (A), and (d) [a]two fixed walls (A); and 7 at least one piezoelectric block (B) having (a) first and second 8 ink pressure chambers (B), each ink pressure chamber (B) communicating 9 with a [nozzles] nozzle (B) for ejecting ink [to be] supplied from an ink 10 [introducing portion] supply, (b) first and second partition walls (B), each 11 partition wall (B) serving as \(\frac{1}{4} \) driving [portions] portion for one of the two 12 ink pressure chambers, each partition wall (B) including a piezoelectric 13 [elements] element (B) and at least two electrodes (B) for driving said 14 piezoelectric [elements] element(B), (c) a pressure buffer chamber (B), and 15 (d) first and second fixed walls (B), 16 wherein said piezoelectric block (A) is configured such that said 17 ink pressure chamber (A), said partition wall (A) [serving as the driving 18 portion] and said pressure buffer chamber (A) are respectively arranged in 19 [this order in the same] sequence along a thickness direction, 20 one of said fixed walls (A) is disposed adjacent to said ink 21 pressure chamber (A) [and/or] and another of said fixed walls is disposed 22 adjacent to said pressure buffer chamber (A) [in reference to said the same 23 direction], 24 said [piezoelectric block (B) is configured such that a] first ink 25 pressure chamber (B), [a] the first partition wall (B) [serving as a driving 26 portion], said pressure buffer chamber (B), [a] the second partition wall (B) 27 [serving as a driving portion], and [a] the second ink pressure chamber (B) 28 are arranged in [the same direction] sequence along the thickness direction of 29 said piezoelectric block (B), and 30 said first fixed wall[s] (B) [is] disposed adjacent to said first ink 31 pressure chamber (B) and said second fixed wall (B) disposed adjacent to 32 said second ink pressure chamber (B) [in reference to said the same 33 direction]. 34

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5. (Amended) The ink-jet recording head as set forth in [any one of] claim[s] 1 [to 4], wherein said piezoelectric block[s] (A) [and (B) are] is a block molding[s] molded integrally by baking powder including a piezoelectric material.

Please add the following new claims:

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39. (Newly Added) The ink-jet recording head as set forth in claim 3, wherein said piezoelectric block (B) is a block molding molded integrally by baking powder including a piezoelectric material.

1 40. (Newly Added) The ink-jet recording head as set forth in 2 claim 4, wherein said piezoelectric blocks (A) and (B) are block moldings 3 molded integrally by baking powder including a piezoelectric material.

41. (Newly Added) The ink-jet recording head as set forth in claim 5, wherein said block molding is molded by baking a lamination obtained by laminating sheets made of the powder and a binder.

42. (Newly Added) The ink-jet recording head as set forth in claim 39, wherein said block molding is molded by baking a lamination obtained by laminating sheets made of the powder and a binder.

43. (Newly Added) The inkejet recording head as set forth in claim 40, wherein said block molding is molded by baking a lamination obtained by laminating sheets made of the powder and a binder.

44. (Newly Added) The ink-jet recording head as set forth in claim 3, wherein said piezoelectric block (B) is repeatedly arranged in the thickness direction, or in a direction perpendicular to the thickness direction.

45. (Newly Added) The ink-jet recording head as set forth in claim 3, wherein said piezoelectric block (B) is repeatedly arranged in the thickness direction, and in a direction perpendicular to the thickness direction.

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46. (Newly Added) The ink-jet recording head as set forth in 1 claim 3, wherein at least two piezoelectric blocks (B) are integrated with 2 each other by baking. 3 47. (Newly Added) The ink-jet recording head as set forth in 1 claim 3, wherein at least two piezoelectric blocks (B) are welded to each other via an adhesive. 48. (Newly Added) The ink-jet recording head as set forth in claim 3, wherein at least two piezoelectric blocks (B) are arranged on a 2 predetermined base member without being welded to each other. 3 49. (Newly Added) The ink-jet recording head as set forth in 1 claim 3, wherein a piezoelectric block assembly composed of at least two 2 piezoelectric blocks (B) integrated with each other by baking is welded to 3 another assembly composed of at least two piezoelectric blocks (B) integrated 4 with each other by baking or is welded to said piezoelectric block (B) via an 5 adhesive. 6 (Newly Added) The ink-jet recording head as set forth in 50. 1 claim 3, wherein an assembly composed of at least two piezoelectric blocks 2 (B) integrated with each other by baking is arranged on a predetermined base 3 member without being welded to another assembly composed of at least two 4 piezoelectric blocks (B) integrated with each other by baking or to said 5 piezoelectric block (B). 6 (Newly Added) The ink-jet recording head as set forth in 1 51. claim 1, wherein a length of said fixed wall in the thickness direction is 2 greater than that of said partition wall in the thickness direction. 3 (Newly Added) The ink-jet recording head as set forth in 1 52. claim 3, wherein a length of said fixed wall in the thickness direction is 2 greater than that of said partition wall in the thickness direction. 3 (Newly Added) The ink-jet recording head as set forth in 1 53. claim 4, wherein a length of each of said fixed walls (A) and (B) in the 2 thickness direction is greater than that of a respective partition wall (A) and

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(B) in the thickness direction.

 $\sum_{i=1}^{n} \frac{1}{2}$

- 54. (Newly Added) The ink-jet recording head as set forth in claim 1, wherein said fixed wall includes a portion firmer than said partition wall.
- 1 55. (Newly Added) The ink-jet recording head as set forth in claim 3, wherein said fixed wall includes a portion firmer than said partition wall.

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56. (Newly Added) The ink-jet recording head as set forth in claim 4, wherein each of said fixed walls (A) and (B) includes a portion firmer than a respective partition wall (A) and (B).

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- 57. (Newly Added) The ink-jet recording head as set forth in claim 3, wherein said fixed wall includes a hollow portion.
- 58. (Newly Added) The ink-jet recording head as set forth in claim 3, wherein said pressure buffer chamber is closed on a side at which said nozzle communicating with said ink pressure chamber is open.
- 59. (Newly Added) The ink-jet recording head as set forth in claim 3, wherein said pressure buffer chamber communicates with an air inlet/outlet path connected outside of said recording head.

60. (Newly Added) The ink-jet recording head as set forth in claim 42, wherein said electrode has a mesh-like structure.

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- 61. (Newly Added) The ink-jet recording head as set forth in claim 3, wherein a number of said electrodes is two.
- 62. (Newly Added) The ink-jet recording head as set forth in claim 61, wherein one of said electrodes is exposed to one of said ink pressure chamber and said pressure buffer chamber.
- 1 63. (Newly Added) The ink-jet recording head as set forth in claim 61, wherein one of said electrodes is exposed to said pressure buffer chamber.
- 1 64. (Newly Added) The ink-jet recording head as set forth in claim 61, wherein both of said electrodes are exposed to said ink pressure chamber and said pressure buffer chamber.

(Newly Added) The ink-jet recording head as set forth in 65. 1 claim 61, wherein both of said electrodes are embedded inside said partition 2 wall. 3 (Newly Added) The ink-jet recording head as set forth in 66. 1 claim 65, wherein one of said electrodes is disposed apart from said ink 2 pressure chamber with a predetermined distance (L1), and the other electrode 3 is disposed apart from said pressure buffer chamber with a predetermined 4 distance (L2), the distance (L1) and (L2) satisfying the relationship of L1 \neq L2. 7 (Newly Added) The ink-jet recording head as set forth in 67. 1 claim 65, wherein one of said electrodes is disposed apart from said ink 2 pressure chamber with a predetermined distance (L1), and the other electrode 3 is disposed apart from said pressure buffer chamber with a predetermined 4 distance (L2), 5 the distance (L1) and (L2) satisfying the relationship of L1 > 6 L2. (Newly Added) The ink-jet recording head as set forth in 68. claim 61, wherein at least one electrode is further interposed between said two electrodes. (Newly Added) The ink-jet recording head as set forth in 1 69. claim 62, wherein said electrode disposed at the surface exposed to said ink 2 pressure chamber is grounded 3 (Newly Added) The ink-jet recording head as set forth in 70. 1 claim 64, wherein said electrode disposed at the surface exposed to said ink 2 pressure chamber is grounded. 3 (Newly Added) The ink-jet recording head as set forth in 1 71. claim 3, wherein a portion at which said electrodes disposed at said partition 2 wall face each other is included in a portion at which said ink pressure 3 chamber and said pressure buffer chamber face each other. 4

1	72. (Newly Added) The ink-jet recording head as set forth in
2	claim 71, wherein a length of one of said electrodes in a direction
3	perpendicular to the thickness direction is different from a length of the other
4	electrode adjacent to said one electrode in the same direction.
1	73. (Newly Added) The ink-jet recording head as set forth in
2	claim 72, wherein one of said electrodes is included in a portion at which
3	said ink pressure chamber and said pressure buffer chamber face each other,
4	and the other electrode adjacent to said one electrode divides the portion at
5	which said ink pressure chamber and said pressure buffer chamber face each
6	other.
1	74. (Newly Added) The ink-jet recording head as set forth in
2	claim 73, wherein said adjacent dividing electrode is thicker than said one
3	electrode.
1	75. (Newly Added) The ink-jet recording head as set forth in
2	claim 3, wherein a length of said ink pressure chamber in a direction
3	perpendicular to the thickness direction is different from a length of said
4	pressure buffer chamber in the same direction.
L.	76. (Newly Added) The Ink-jet recording head as set forth in
2/	claim 3, wherein a distance between said nozzles is constant in the same
(direction.
1	77. (Newly Added) The ink-jet recording head as set forth in
2	claim 45, wherein m nozzle alignments, in which said nozzles
3	communicating with said ink pressure chambers are aligned in an arbitrary
4	number in the same direction as the moving direction of said ink-jet
.5	recording head in an ink-jet printer, are arranged in a direction perpendicular
6	to the moving direction,
-	
7	said nozzles are aligned without any overlapping in the
8	direction perpendicular to the moving direction, and $X \leq P/m$

wherein X represents a deviation between said nozzles nearest

each other out of said nozzles in reference to the moving direction and P

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represents a distance between said nozzles belonging to said same nozzle

12 alignment.

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(Newly Added) The ink-jet recording head as set forth in claim 77, wherein the distance between said adjacent nozzle alignments in the direction perpendicular to the moving direction is a multiple of X.

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(Newly Added) The ink-jet recording head as set forth in 79. claim 77, wherein the moving direction accords with the arranging direction of said ink pressure chamber and said pressure buffer chamber.

80. (Newly Added) The ink-jet recording head as set forth in claim 77, wherein the moving direction does not accord with the arranging direction of said ink pressure chamber and said pressure buffer chamber.

Respectfully Submitted,

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